Release B CDR RID Report

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Document CDR

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Section **Page** **Figure Table**

Category Name Processing (DPS) Design
Actionee ECS

Sub Category

Subject Cross-DAAC Planning Response to Data Delays

Description of Problem or Suggestion:

Data produced at one DAAC that are needed at another DAAC may be significantly delayed due to late data arrivals, PGE failures, etc. A replan would allow the downstream DAAC to get a revised PDAS, but may be too expensive to run each time this happens (esp. at GSFC). Yet the downstream DAAC needs that notification.

Originator's Recommendation

Provide a means to notify the downstream DAAC of significant data delays without doing a replan. (Ideally a lightweight method of estimating the change to the PDAS).

GSFC Response by: **GSFC Response Date**

HAIS Response by: J. Garlow **HAIS Schedule**

HAIS R. E. C. Schwartz **HAIS Response Date** 6/12/96

On May 23rd a telecon was held to discuss this RID, the tools currently being provided by Release B PDPS and what additional needs the DAACs had. The telecon was attended by DAAC operations people from Goddard (Catherine Harnden, Carolyn Whitaker), Langley (Chris Harris, Jerry Garcia, Jill Travers, and Lucy Lee) and EDC (Mike Benson and Tom Kalvelage) as well as Chip Schwartz, Will Knauss and Joanne Garlow from Release B PDPS. The telecon began with Catherine Harnden discussing her concerns over the current design that led to this RID. Joanne explained in a little more detail the tools PDPS is currently providing as well as why PDPS does not believe a "light weight PDAS" to be a good option. After discussing other options, we reached a consensus that a small change to the Limited Automatic Replan design, combined with the other tools PDPS offers, would meet the DAACs needs as they see them at this time. The following design changes have been made:

1. When a plan is baselined, a "baseline PDAS" is produced that is sent to the other DAACs.
In the design, this change requires adding the attribute myBaselineFlag to the PlDASNB and PlDataAvailabilityTimes classes. It also requires a slight change to the MakeDATFromPDASfile operation in PlDataAvailabilityTimes so that this flag is read from the PDAS and placed in the PlDataAvailabilityTimes attribute.
2. When a PDAS is received that was created when a plan was activated, this PDAS is compared with the baseline PDAS by the Limited Automatic Replan function. If this PDAS indicates any data is planned to be produced later than the baseline time plus an operator-configurable delta, then a replan notification is displayed.
In the design, this change requires only a slight modification to the call to the operation PlDASDelta::CheckReplan so that the PlDataAvailabilityTimes objects passed in were created from the baseline PDAS and the newly arrived PDAS. This call is made in the Subscription Manager, in the object PlSubMsgCb::HandleMsgCb().

Status **Closed** **Date Closed** **8/9/96** **Sponsor** **Kempler**

****** **Attachment if any** ******